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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/559,516	03/27/2006	Yongfeng Wang	601/4	3829	
27538 GIBSON & DE	7590 04/15/200 CRNIER L.L.P.	9	EXAMINER		
900 ROUTE 9 I		MOORE, SUSANNA			
SUITE 504 WOODBRIDGE, NJ 07095			ART UNIT	PAPER NUMBER	
	•		1624		
			MAIL DATE	DELIVERY MODE	
			04/15/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/559,516	WANG ET AL.				
Office Action Summary	Examiner	Art Unit				
	SUSANNA MOORE	1624				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence add	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	J. nely filed the mailing date of this co O (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>02 Fe</u>	bruarv 2009.					
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· =	<u> </u>					
closed in accordance with the practice under E						
Disposition of Claims						
4)⊠ Claim(s) <u>1,4,6,7 and 10</u> is/are pending in the ap	oplication.					
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,4,6,7 and 10</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT	O-152.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National (Stage			
Attachment(s)	_					
1) Notice of References Cited (PTO-892)	4) ☐ Interview Summary Paper No(s)/Mail Da					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:					

DETAILED ACTION

Response to Arguments

This is in response to the amendment and Remarks, filed 2/2/2009, with respect to Office Action mailed 9/2/2008 have been fully considered. Some rejections have been withdrawn as indicated below, while others are new as necessitated by the amendments. Thus, this is a Final Office Action. In summary, claims 1, 4, 6, 7 and 10 are currently pending and under consideration.

Specification

The disclosure is objected to because of the following informalities: thoughout the the Specification, the term "phospholipase 5" is used. However, there is no such "phospholipase 5" per se. Phospholipases are class of enzymes that hydrolyze phospholipids into fatty acids and other lipophilic substances. There are four major classes, categorized as phospholipase A (A1 and A2), B, C and D. Each on of these has a unique role in the body. Types C and D are further broken down into phosphodiesterases (PDE). There are many types and isoforms of phosphodiesterases, e.g. phosphodiesterase 5, which enhances the vasodilatory effects of cyclic guanosine monophosphate (cGMP) and is the phosphodiesterase inhibited for the treatment of erectile dysfunction. If this is what Applicant intends, please amend the Specification accordingly. If not, please provide clarification of the term, e.g. literature which shows the terms can be used interchangeably. Appropriate correction is required.

Claim Objections

The objection of claims 1 and 3 because of the following informalities: please remove the term "to" between "together" and "form" on page 3, line 20; page 5, line 24; and page 7, line 25 is **withdrawn** based on the amendments.

The objection of claim 1 because of the following informalities: please insert a space between "," and "imidazolyl" in line 5 is **withdrawn** based on the amendments.

The objection of claim 1 because of the following informalities: please replace "cyano-" with "cyano" on page 2, line 13 and page 4, line 19 is **withdrawn** based on the amendments.

The objection of claim 1 because of the following informalities: please replace square with a comma in page 3, line 3 is **withdrawn** based on the amendments.

The objection of claim 1 because of the following informalities: please insert a space between "," and "CONR⁶R⁷" on page 3, line 4 is **withdrawn** based on the amendments.

The objection of claim 1 is objected to because of the following informalities: please insert a space between "," and "or" on page 4, line 3 is **withdrawn** based on the amendments.

The objection of claim 1 because of the following informalities: please insert a space between "," and "R¹³" on page 4, line 4 is **withdrawn** based on the amendments.

The objection of claim 1 because of the following informalities: please insert an "a" between "as" and "substituent" on page 4, line 10 is **withdrawn** based on the amendments.

The objection of claim 2 because of the following informalities: please insert a space between ":" and "R¹" on page 5, line 1 is **withdrawn** based on the amendments.

The objection of claim 2 because of the following informalities: please insert a space between "," and "C₁-C₃alkoxyl" on page 5, line 9 is **withdrawn** based on the amendments.

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The objection of claim 2 because of the following informalities: please insert a space between "," and "CN" on page 6, line 1 is **withdrawn** based on the amendments.

Claim 1 is objected to because of the following informalities: there are two semicolons at the end of the definition of \mathbb{R}^1 . Appropriate correction is required.

Claim 1 is objected to because of the following informalities: there are two semicolons at the end of the definition of R⁵. Appropriate correction is required.

Claim 1 is objected to because of the following informalities: there are two commas after the "OH" in the definition of R^{10} . Appropriate correction is required.

Claim 1 is objected to because of the following informalities: an "or" is needed after the $NR^{14}R^{15}$ in the definition of R^{10} . Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

The rejection of claim 2 for reciting the limitation " $C_{2^{-3}}$ alkyl or $C_{1}\sim C_{4}$ alkoxyl, the said alkyl and alkoxyl are substituted with phenyl, hydroxyl; $C_{2}\sim C_{6}$ alkenyl or $C_{3}\sim C_{6}$ cylcoalkyl;" in the definition of R^{12} is **withdrawn** based on the amendments.

The rejection of claim 3 for reciting the limitation " NR^6R^7 " in the definition of R^1 is **withdrawn** based on the amendments.

The rejection of claims 2 and 3 for reciting the limitation " C_1 - C_6 branched or straight chain alkyl substituted with ..., CO_2R^8 , $CONR^{14}R^{15}$, $CSNR^{14}R^{15}$ or $C(NH)NR^{14}R^{15}$;" in the definition of R^{13} is **withdrawn** based on the amendments.

The rejection of claim 3 for reciting the limitation "CONR 13 R 14 " in the definition of R 10 and R 11 is **withdrawn** based on the amendments.

The rejection of claims 1-4, 6, 7 and 10 under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for compounds of Formula 1, wherein R^1 = alkyl or a substituted alkyl; R^2 is hydrogen; and R^5 = $SO_2NR^{10}R^{11}$ does not reasonably provide enablement for other compounds of Formula 1 is **withdrawn** based on the amendments.

Claims 1, 4, 6, 7 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, the variable R8 is defined however, said variable has been removed by amendment. Thus, claim 1 is vague. Claims which depend from claim 1 which fail to remedy the deficiency of claim 1 are also rejected for the reasons set forth herein.

Regarding claim 4, most of the species lack antecedent basis based on the amendments. Applicant has removed where R¹⁰ and R¹¹ can form a ring, which include the piperazinyl, pyrrolidnyl, morpholinyl, and piperidinyl rings. Furthermore, Applicant has removed the CO2R8 substituent from the definition of substituents on R¹⁰ and R¹¹.

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Regarding claim 10, the IC formula no longer is embraced by claim 1, and thus lacks antecedent basis. Applicant may make claim 10 independent but must define all variables in formulas IB, IC and IG. Thus, said claim is vague.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SUSANNA MOORE whose telephone number is (571)272-9046. The examiner can normally be reached on M-F 8:00-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. James O. Wilson can be reached on (571) 272-0661. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Susanna Moore/ Examiner, Art Unit 1624

/James O. Wilson/ Supervisory Patent Examiner, Art Unit 1624